

**COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR CONTINUATION-IN-PART PATENT APPLICATION**

---

We, C. PATRICK DOHERTY, JORGE L. de VARONA, and SALMAN AKRAM, declare: that our citizenships, residences and post offices addresses are as stated below next to our names; that we verily believe we are the original, first, and joint inventors of the subject matter of the invention or discovery entitled "METHOD AND SYSTEM HAVING SWITCHED NETWORK FOR TESTING SEMICONDUCTOR COMPONENTS ON A SUBSTRATE" for which a patent is sought and which is described and claimed in the specification attached hereto; that we have reviewed and understand the contents of the above-identified specification, including the claims; and that we acknowledge the duty to disclose information which is material to the examination of this application in accordance with Section 1.56(a) of Title 37 of the Code of Regulations.

We hereby claim the benefit under Section 120 of Title 35 of the United States Code of the earlier filed pending U.S. Application Serial No. 09/999,502, filed on December 4, 2001, which is a division of application serial no. 09/675,072, filed on September 28, 2000, which is a division of application serial no. 09/244,373, filed on February 4, 1999, Patent No. 6,337,577, which is a continuation-in-part of application serial no. 09/075,691, filed May 11, 1998, Patent No. 6,246,250; and, insofar as the subject matter of each of the claims of this application is not disclosed in the earlier filed pending application in the manner provided by the first paragraph of Section 112 of Title 35 of the United States Code, we acknowledge the duty to disclose material information, as defined in Section 1.56(a) of Title 37 of the Code of Federal Regulations, which occurred between the

filling date of the earlier filed application and the filing date of this application.

We hereby claim the foreign priority benefits under Section 119 of Title 35 of the United States Code of the foreign applications for patent or inventor's certificate listed below, and we have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: NONE

We further declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application or any patent issuing thereon.

**POWER OF ATTORNEY:** We hereby appoint as our attorneys, Stephen A. Gratton, Reg. No. 28,418; Michael L. Lynch, Reg. No. 30,871; Charles B. Brantley, II, Reg. No. 38,086; Kevin D. Martin, Reg. No. 37,882; and David J. Paul, Reg. No. 34,692, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. All correspondence and telephonic communications should be directed to:

STEPHEN A. GRATTON  
2764 South Braun Way  
Lakewood, CO 80228

Telephone: (303) 989 6353

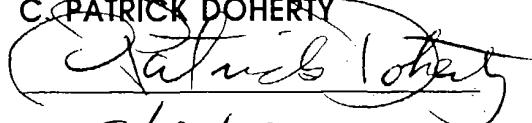
Fax: (303) 989 6538

Wherefore, we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the foregoing specification and claims, declaration, power of attorney, and this petition.

INVENTOR'S FULL NAME:

C. PATRICK DOHERTY

INVENTOR'S SIGNATURE:



8/6/02

DATE OF SIGNATURE:

RESIDENCE (CITY AND STATE):

Boise, Idaho

CITIZENSHIP (COUNTRY):

United States of America

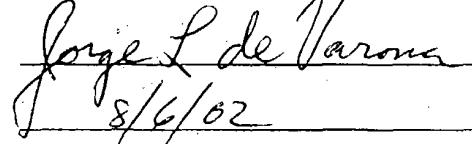
POST OFFICE ADDRESS:

7203 E. Columbia Road  
Boise, ID 83706

INVENTOR'S FULL NAME:

JORGE L. de Varona

INVENTOR'S SIGNATURE:



8/6/02

DATE OF SIGNATURE:

RESIDENCE (CITY AND STATE):

Boise, Idaho

CITIZENSHIP (COUNTRY):

United States of America

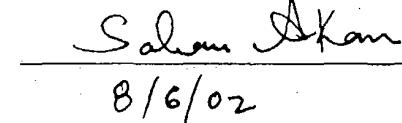
POST OFFICE ADDRESS:

579 W. Ridgeline Drive  
Boise, ID 83702

INVENTOR'S FULL NAME:

SALMAN AKRAM

INVENTOR'S SIGNATURE:



8/6/02

DATE OF SIGNATURE:

RESIDENCE (CITY AND STATE)

Boise, Idaho

CITIZENSHIP:

Pakistan

POST OFFICE ADDRESS:

1463 E. Regatta Street  
Boise, ID 83706

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

C. PATRICK DOHERTY  
JORGE L. de VARONA  
SALMAN AKRAM

Serial No.:

Filing Date: Concurrently Herewith

Title: METHOD AND SYSTEM HAVING SWITCHED NETWORK  
FOR TESTING SEMICONDUCTOR COMPONENTS ON A SUBSTRATE

Docket No. 01-0846

**ELECTION UNDER 37 C.F.R. §§3.71 AND 3.73 AND POWER OF ATTORNEY**

Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

The undersigned, being Assignee of the entire interest in the above-identified application by virtue of an Assignment recorded in the United States Patent and Trademark Office as set forth below or filed herewith, hereby elects, under 37 C.F.R. §3.71, to prosecute the application to the exclusion of the inventor(s).

The Assignee hereby revokes any previous Powers of Attorney and appoints: Stephen A. Gratton, Reg. No. 28,418; Michael L. Lynch, Reg. No. 30,871; Charles B. Brantley, II, Reg. No. 38,086; Kevin D. Martin, Reg. No. 37,882; and David J. Paul, Reg. No. 34,692, as its attorney or agent, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.

Pursuant to 37 C.F.R. §3.73, the undersigned duly authorized designee of Assignee certifies that the evidentiary documents have been reviewed, specifically the Assignment to MICRON TECHNOLOGY, INC., referenced below, and certifies that to the best of my knowledge and belief, title remains in the name of the Assignee.

Assignment:

Filed concurrently herewith for recording, a copy of which is attached hereto.

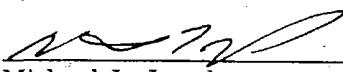
Previously recorded on \_\_\_\_\_  
at Reel/Frame \_\_\_\_\_

Please direct all communication as follows:

Stephen A. Gratton  
THE LAW OFFICE OF STEPHEN A. GRATTON  
2764 South Braun Way  
Lakewood, CO 80228  
(303) 989 6353

ASSIGNEE: MICRON TECHNOLOGY, INC.

Date: 8-8-02

By: 

Michael L. Lynch  
Chief Patent Counsel

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

C. PATRICK DOHERTY  
JORGE L. de VARONA  
SALMAN AKRAM

Serial No.:

Filing Date: Concurrently Herewith

Title: METHOD AND SYSTEM HAVING SWITCHED NETWORK FOR TESTING SEMICONDUCTOR COMPONENTS ON A SUBSTRATE

Docket No. 01-0846

ASSIGNMENT:

Enclosed for recording  
 Previously recorded

Date: \_\_\_\_\_

Reel: \_\_\_\_\_

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN, AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 8000 South Federal Way, Boise, Idaho 83706-9632, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which will be executed by the undersigned and is entitled: **METHOD AND SYSTEM HAVING SWITCHED NETWORK FOR TESTING SEMICONDUCTOR COMPONENTS ON A SUBSTRATE**; such application and all divisional, continuing, substitute, renewal, reissue, and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States of America;

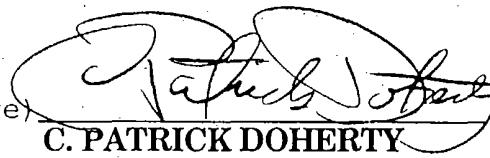
AUTHORIZE AND REQUEST, the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent, and purpose of this assignment the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney, and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining, and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

TO BE BINDING on the heirs, assigns, representatives, and successors of the undersigned and extend to the successors, assigns, and nominees of the Assignee.

(Signature)



Date

8/6/02

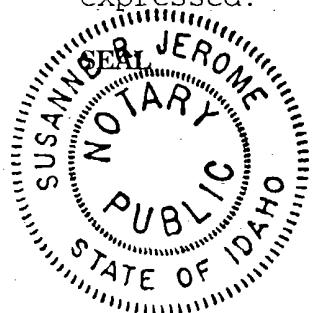
C. PATRICK DOHERTY

STATE OF IDAHO

ss.

COUNTY OF ADA

BEFORE ME, this 10<sup>th</sup> day of August, 2002, personally appeared the above named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her (their) own free will for the purpose therein expressed.



Susanne R. Jerome  
Notary or Consular Officer of the  
United States of America

My Commission Expires: 3/12/08

(Signature)

Jorge L. de Varona

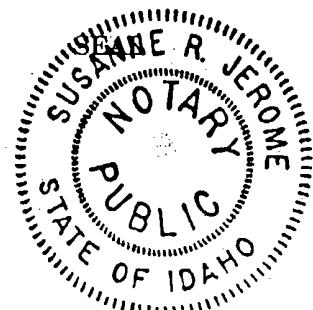
Date 8/6/02

STATE OF IDAHO

)ss.

COUNTY OF ADA

BEFORE ME, this 6<sup>th</sup> day of August, 2002, personally appeared the above named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her (their) own free will for the purpose therein expressed.



Susanne R. Jerome

Notary or Consular Officer of the  
United States of America

My Commission Expires: 3/12/08

(Signature)

Salman Akram

Date

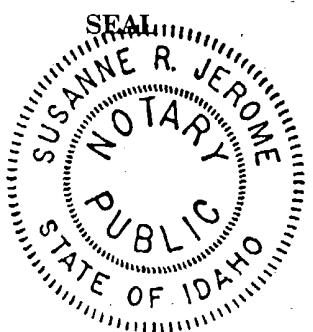
8/6/02

STATE OF IDAHO

)ss.

COUNTY OF ADA

BEFORE ME, this 6<sup>th</sup> day of August, 2002, personally appeared the above named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she executed the same of his/her (their) own free will for the purpose therein expressed.



Susanne R. Jerome

Notary or Consular Officer of the  
United States of America

My Commission Expires: 3/12/08